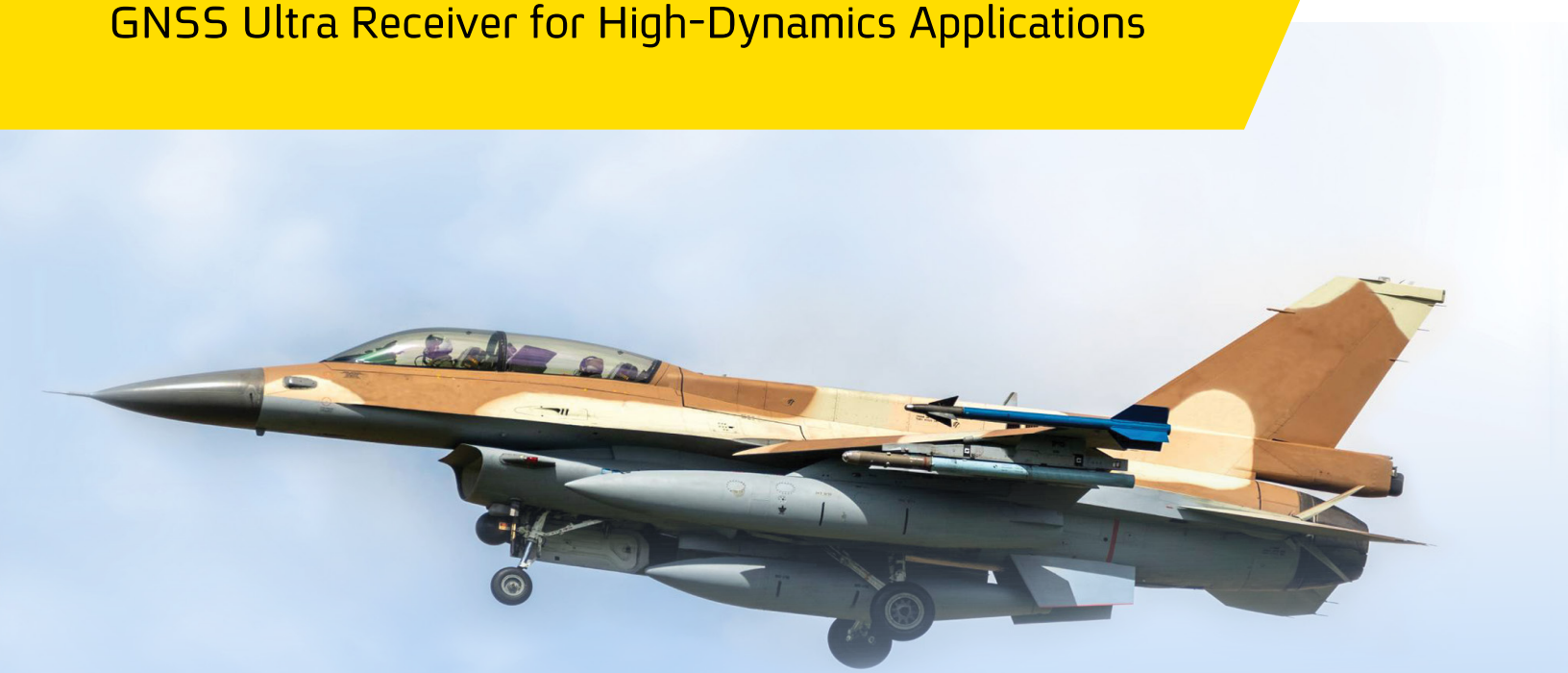
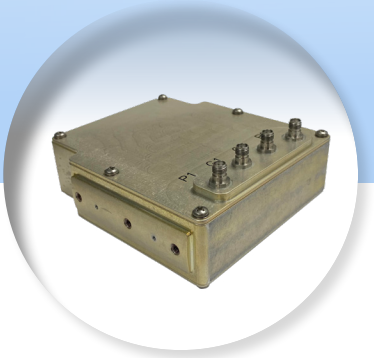
GUR / GUR-HD

GNSS Ultra Receiver for High-Dynamics Applications





Elbit Systems™ Land

GUR / GUR-HD

GNSS Ultra Receiver for High-Dynamics Applications

The GUR embedded GNSS receiver offers high performance and advanced capabilities. The durable and modular solution can be integrated with Inertial Navigation Systems (INS) and embedded into a wide range of systems for ground, airborne and naval applications.

Multiple Configurations for Maximum Flexibility

The GUR GNSS receiver can support multiple configurations and GNSS constellations, including GPS L1 C/A code, GLONASS L1, with future upgrades for GPS L2C, GLONASS L2 and other GNSS constellations and frequencies, including L5.

GUR can be used in any application that requires GNSS, from a simple GNSS receiver to a complex, tightly coupled jamming-aware system. The system can detect and indicate when operating in a GNSS jammed environment, reducing the chance of navigation errors.

Advanced GNSS Technology

GUR provides all-in-view satellite navigation and rapid satellite synchronization.

Featuring advanced multipath mitigation capabilities, GUR delivers high performance at low altitude, as well as in urban and naval environments.

GUR can be ordered as a standard GNSS receiver or for high-dynamics (HD) applications that require continuous navigation at ultra-high speed, high jerks and accelerations.

GUR-HD for High Dynamics

GUR-HD is similar to GUR in all features and properties, with additional capabilities for continuous navigation at high dynamics as high acceleration & speed at high altitudes.

Usage and Flexibility

GUR and GUR-HD are fully customizable to unique customer applications and requirements, including form factor, antenna inputs, interfaces and other characteristics, to meet the complex challenges of the modern battlefield.

Technical Specifications

GNSS properties (model pending)

- Basic configuration: GPS L1 C/A code
- Additional options: GLONASS G1
- Provision for L2/G2 on all constellations

Dynamics

- Max. velocity:
  600m/s (GUR)
  1600m/s (GUR-HD)*
- Max. acceleration:
  10g (GUR)
  15g (GUR-HD)*

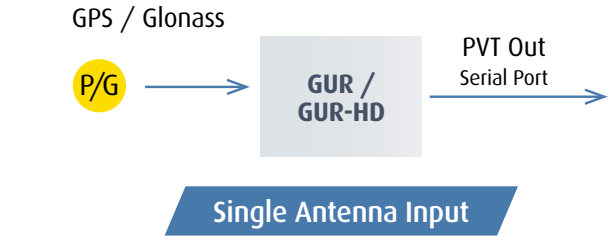
* Export license may be required

Accuracy

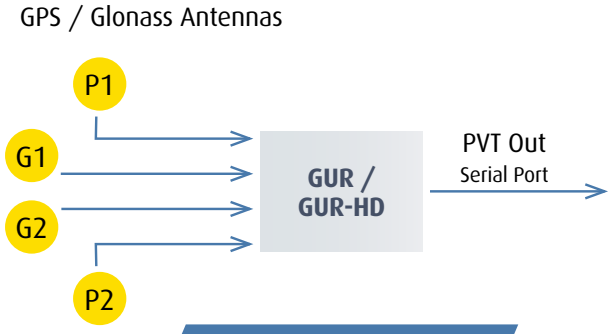
- Horizontal: 3m CEP @ PDOP < 3
- Vertical: 5m CEP @ PDOP < 3
  Supports SBAS, QZSS, DGPS for improved accuracy
- Velocity: 0.1m/sec @ acceleration < 4g
  0.2m/sec @ acceleration > 4g

Contact Elbit Systems Rokar for additional capabilities and GNSS constellations

Optional Configurations



Single Antenna Input



Multiple Antenna Inputs

GUR / GUR-HD

GNSS Ultra Receiver for High-Dynamics Applications

Key Features

- Continuous tracking
- All-in-view satellite navigation
- Multipath error mitigation
- Fast satellite synchronization
- Jamming detection and awareness
- Differential GPS and SBAS/ QZSS capabilities
- Optional multiple antenna inputs
- Optional dual frequency

Key Benefits

- Flexible configurations
- Customizable
- Suitable for air, ground and naval applications

Elbit Systems Land
E-mail: land@elbitsystems.com www.elbitsystems.com

Follow us on

The logo brand, product, service, and process names appearing herein are the trademarks or service marks of Elbit Systems Ltd., its affiliated companies or, where applicable, of other respective holders. All information in this document is for general information only, and is subject for change without notice. © 2021. This brochure contains Elbit Systems and others proprietary information. EP21-MKT-054